Index of Claims

Rejected

Allowed

| Application/Control No |
|------------------------|
|------------------------|

Applicant(s)/Patent under Reexamination

YAMAZAKI ET AL.

08/818,884

Examiner

(Through numeral) Cancelled

Restricted

2871

**Dung Nguyen** 

Non-Elected N

Interference

Appeal Α

Art Unit

O Objected

|              |          |  |  |  |  |  |          |              |  |          |       |          |          |                                | _        |   |                                     | J            | Ь        |  | _        |
|--------------|----------|--|--|--|--|--|----------|--------------|--|----------|-------|----------|----------|--------------------------------|----------|---|-------------------------------------|--------------|----------|--|----------|
| Cla          | aim      | Γ  |  |  |  | Dat  |          |              |  |          |       | Cla      | aim      | Ι                              |          |   |                                     | Date         | <u> </u> |  | _        |
| Final        | Original | 4/15/05  |  |  |  |  |          |              |  |          |       | Final    | Original | 4/15/05                        |          |   |                                     |              |          |  |          |
|              | 1        | =  |  |  |  |  |          |              |  |          |       |          | 51       | =                              |          |   | Г                                   | Т            |          |  | T        |
|              | 2        | =  |  |  |  |  |          |              |  |          |       |          | 52       | =                              |          |   |                                     |              | I        |  |          |
|              | 3        | =  |  |  |  |  |          |              |  |          |       |          | 53       | =                              |          |   | L.                                  |              |          |  | L        |
|              | 4        | L  | L  | 乚  | L  | L  |          |              |  |          |       |          | 54       | =                              |          |   |                                     |              |          |  | L        |
| L            | 5        |  | L  | <u> </u>   |  | <u>L</u>   |          |              |  |          |       |          | 55       |                                |          |   | L                                   | <u></u>      | L        | _  | L        |
|              | 6        | =  | _  |  | <u> </u>   | <u> </u>   | L_       | L            | L_   | _        |       |          | 56       | <u> </u>                       |          |   |                                     | L            |          |  | L        |
| <u></u>      | 7        | =  | L.   | L  | -  | ļ  | <u> </u> | ┡            | ┞  |          |       |          | 57       | ļ                              |          |   | <u> </u>                            | L.           | _        | L  | L        |
| -            | 8        | <u> </u>   | ⊢  | <u> </u>   | <u> </u>   | _  | ┡        | ├-           | ┡  |          |       |          | 58       | <u> </u>                       |          |   | <u> </u>                            | <u> </u>     | ┞        | ┡  | ╄        |
| <u> </u>     | 9        | =  | $\vdash$   |  | -  | ├-   | ┝-       | ⊢            | -  |          |       |          | 59       | <u> </u>                       |          | _ | ⊢                                   | ├            | ⊢        | ⊢  | ╀        |
|              | 10<br>11 | =  | ┢  | ⊢  | ⊢  |  | ┼        | ╁            | -  |          |       | ·        | 60<br>61 | <u> </u>                       |          | _ | <del> </del> —                      | ⊢            | -        | ╁  | ╀        |
|              | 12       | $\vdash$   | ⊢  | ├  | ⊢  | ├  | ├        | ⊢            | ⊢  | $\vdash$ |       |          | 62       | -                              |          |   | -                                   | <del> </del> |          | -  | ╀        |
|              | 13       | <del> </del>                                     | ┢  | ├  | ⊢  | $\vdash$   | ╁        | $\vdash$     | $\vdash$   | $\vdash$ |       |          | 63       | -                              | -        | _ | ├                                   | $\vdash$     |          | -  | ╁        |
| h            | 14       | ┢  |  | -  | ┢  | $\vdash$   | $\vdash$ | +            | <del>                                     </del> |          |       |          | 64       | =                              | _        | _ |                                     | $\vdash$     | $\vdash$ |  | ╁        |
|              | 15       | -  | <del>                                     </del> | <del>                                     </del> | $\vdash$   | <del>                                     </del> | $\vdash$ | 1            | <del>                                     </del> | $\vdash$ |       |          | 65       | =                              |          | _ | ┢╾                                  | ╁            | $\vdash$ |  | t        |
|              | 16       |  | $\vdash$   | $\vdash$   | Г  | Т  | $\vdash$ |              | $\vdash$   |          |       |          | 66       | =                              |          |   | Г                                   |              | Г        | T  | t        |
|              | 17       | =  | <del>                                     </del> | $\vdash$   |  | _  |          | T            | T  |          |       |          | 67       | =                              |          |   | $\vdash$                            | _            |          |  | T        |
|              | 18       | =  |  |  |  |  | T        | İ            | T  |          |       |          | 68       | =                              |          | - |                                     |              |          | t  | T        |
|              | 19       | =  |  |  |  |  |          |              |  |          |       |          | 69       | =                              |          |   |                                     |              |          | <b>—</b>   | T        |
|              | 20       | =  |  |  |  |  |          |              |  |          |       |          | 70       | =                              |          |   |                                     |              |          |  |          |
|              | 21       | =  |  |  |  |  |          |              |  |          |       |          | 71       | =                              |          |   |                                     |              |          |  |          |
|              | 22       | =  |  |  |  |  |          |              |  |          |       |          | 72       |                                |          |   |                                     |              |          |  |          |
| $oxed{oxed}$ | 23       | =  |  |  |  |  |          | L            |  |          |       |          | 73       |                                |          |   |                                     |              |          |  |          |
| <u> </u>     | 24       | =  | L  | _  |  | L  | _        |              | L  |          |       |          | 74       |                                |          |   |                                     |              |          | _  | Ļ        |
| <u> </u>     | 25       | _  |  | <u> </u>   |  | L.   | <u> </u> | ╙            | L  |          |       |          | 75       |                                |          |   | ļ                                   |              | <u> </u> | L  | L        |
|              | 26       | =  | _  | _  | <u> </u>   | -  | ┡        | <u> </u>     | ⊢  |          |       |          | 76       | _                              |          |   | <u> </u>                            |              | _        | <u> </u>   | Ļ        |
|              | 27       | =  |  |  | ⊢  | _  | <u> </u> | <b> </b>     | <del> </del>                                     |          |       |          | 77       |                                |          |   | ⊢                                   | _            | <u> </u> | ⊢  | ╄        |
|              | 28<br>29 |  | ├-   | ├  | ⊢  |  | ┢        | <del> </del> |  |          |       |          | 78<br>79 | -                              |          |   | <u> </u>                            |              | ├        | <u> </u>   | ╄        |
|              | 30       | Ξ  | ├  | ⊢  |  | ⊢  | ╁        | ╁            | $\vdash$   | $\vdash$ |       |          | 80       | $\vdash$                       | _        |   | -                                   |              |          | -  | ⊦        |
|              | 31       | =  | ├  |  | 1  | $\vdash$   | ╁        | ╁            | $\vdash$   |          |       |          | 81       | -                              |          |   | $\vdash$                            |              | $\vdash$ |  | ⊦        |
|              | 32       | =  | $\vdash$   | $\vdash$   | ⊢  |  | ╁        | ╁            |  |          |       | _        | 82       | $\vdash$                       |          |   | $\vdash$                            |              |          | $\vdash$   | H        |
|              | 33       | =  | $\vdash$   | $\vdash$   | _  | <del>                                     </del> | ╁        | ┢            | ┢  |          |       |          | 83       |                                |          |   | <u> </u>                            |              | -        | <del>                                     </del> | t        |
|              | 34       | <del>                                     </del> | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$   | 一        | <u> </u>     | H  |          |       |          | 84       | $\vdash$                       |          |   | $\vdash$                            |              |          | $\vdash$   | t        |
|              | 35       | $\vdash$   | 一  | T  | $\vdash$   |  | <u> </u> |              | T  |          |       |          | 85       |                                |          |   | _                                   |              |          |  | t        |
|              | 36       | =  |  |  |  |  | T        | T            |  |          |       |          | 86       |                                |          |   |                                     |              |          |  | T        |
|              | 37       | =  |  |  |  |  |          |              |  |          |       |          | 87       |                                |          |   |                                     |              |          |  | Γ        |
|              | 38       | =  |  |  |  |  |          |              |  |          |       |          | 88       |                                |          |   |                                     |              |          |  | Γ        |
|              | 39       | =  | 匚  |  |  |  |          | 匚            |  |          |       |          | 89       |                                |          |   |                                     |              |          |  | Ĺ        |
|              | 40       | Ξ  |  |  |  | L  |          |              |  |          |       |          | 90       | $oxedsymbol{oxedsymbol{oxed}}$ |          |   | 匚                                   | L            | 匚        |  | Ĺ        |
|              | 41       | =  | L_   | <u> </u>   | <u> </u>   | L  | <u> </u> | oxdot        | Щ  | Ш        |       |          | 91       |                                |          |   |                                     | <u> </u>     | L.       |  | L        |
| <u> </u>     | 42_      | =  | Щ  | <u> </u>   | <u> </u>   | <u> </u>   | $\vdash$ | <b> </b> _   | <u> </u>   | Ш        |       | <u> </u> | 92       | $\square$                      |          |   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | ļ            | <u> </u> | _  | L        |
|              | 43       | =  | ļ  | $\vdash$   | $\vdash$   | _  | $\vdash$ | <u> </u>     | <b> </b>   | Щ        |       |          | 93       |                                |          |   | H                                   | L            | <u> </u> | <u> </u>   | <u> </u> |
|              | 44       | <u> </u>   | $\vdash$   | <u> </u>   | <u> </u>   | _  | <u> </u> |              | ⊢  | Ш        |       | <u> </u> | 94       | _                              | Ш        | _ | $\vdash$                            | <u> </u>     | $\vdash$ | _  | -        |
|              | 45<br>46 | $\vdash$   | <u> </u>   | $\vdash$   | $\vdash$   | H  | ├—       | -            | $\vdash$   | $\vdash$ |       |          | 95       | $\vdash$                       | -        |   | H                                   | $\vdash$     | ⊢        | H  | ├        |
| <del></del>  | 46       | $\vdash$   |  |  | $\vdash$   | $\vdash$   | $\vdash$ | -            | $\vdash$   | Н        |       |          | 96<br>97 | <u> </u>                       | $\dashv$ |   | $\vdash$                            | H            | <u> </u> | ┝  | ├        |
| -            | 48       | $\vdash$   | -  | -  | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$     |  | $\dashv$ |       |          | 98       | $\vdash$                       | _        |   | -                                   | <del> </del> | ├-       | -  | $\vdash$ |
| -            | 49       | $\vdash$   | -  | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$ | ┢            | $\vdash$   | Н        |       |          | 99       | $\vdash$                       | $\dashv$ |   | $\vdash$                            |              | $\vdash$ | $\vdash$   | -        |
|              | 50       | H  | $\vdash$   | -  | $\vdash$   | $\vdash$   | -        | ┢            | $\vdash$   | $\vdash$ |       |          | 100      | Н                              | $\dashv$ |   |                                     | -            | ┝        | $\vdash$   | +        |
| Ь            | 50       | _  | Ц  | نـــا  | <u> </u>   |  | Ц.       | Ц            |  | لب       | ::::: |          | 100      | ш                              |          |   | L                                   | L            | L        | L  | Ц        |

| :: | :: |          | 2011)  | Ь.       |     |          |              | Jan      | <del>-</del> | _  |              |   | ŀ |
|----|----|----------|--|----------|-----|----------|--------------|----------|--------------|--|--------------|---|---|
|    |    | Final    | Original   | 4/15/05  |     |          |              |          |              |  |              |   |   |
|    |    |          | 51   | =        | _   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$     |  | T            | $\vdash$  |   |
| :: |    |          | 57   |          | -   | H        | $\vdash$     | ⊢        | $\vdash$     | $\vdash$   | ┝            | $\vdash$  | ŀ |
| :: | H  | ├──      | 1 22   | =        | _   | _        | _            | Ь.       |              | ļ  |              | _   | ŀ |
| :: |    |          | 53   | =        |     | <u> </u> | L            | <u> </u> |              |  |              | <u> </u>  | l |
| :: | H  |          | 54   | =        |     |          |              |          |              |  |              |   |   |
| :: |    |          | 55   |          |     | 1        | 1            | 1        | 1            |  |              |   | ŀ |
| :: | ii |          | 56   |          |     |          |              |          |              |  | ·            |   | : |
| :: |    |          | 57   |          |     |          |              |          |              |  |              |   |   |
| :: |    |          | 58   | m        |     |          | ┢            |          | H            | Т  | 1            | T   | Ė |
| :: |    | -        | 51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59<br>60   |          | -   | ┢╾       | -            | $\vdash$ | ┢            | H  |              | <del>                                     </del>  |   |
| :: |    |          | 60   | -        | -   | ⊢        | $\vdash$     | $\vdash$ | $\vdash$     | -  | ├─           | ├   |   |
| :: | ii |          | 64   | $\vdash$ | _   | ⊢        | <del> </del> | ⊢        | -            | -  | $\vdash$     | ⊢   | l |
| :: | H  | <u> </u> | 01   | _        | _   | -        | -            | _        |              |  | <del> </del> | ┢   | ŀ |
| :: | H  | <u> </u> | 02   | _        | _   | ⊢        | <u> </u>     | <u> </u> |              |  | <del> </del> | <u> </u>  | ŀ |
| :: | H  |          | 63   |          |     | <u> </u> | ļ            | <u> </u> | <u> </u>     | <u> </u>   | <u> </u>     | ļ   | ŀ |
| :: | H, | ļ        | 64   | =        |     | L.       | <u> </u>     | <u> </u> | lacksquare   | _  | ᆫ            |   | l |
| :: |    |          | 62<br>63<br>64<br>65<br>66<br>67   | =        |     | _        | <u> </u>     | ╙        | <u> </u>     |  | _            | _   | l |
|    |    |          | 66   | Ξ        | _   | <u> </u> | L            |          |              |  | <u> </u>     | <u> </u>  | ľ |
| :: |    | <u> </u> | 67   | =        |     | _        | L            |          | _            |  | _            | <u> </u>  | l |
| :: |    |          | 68   | =        |     |          |              |          | L            |  |              |   | ľ |
| :: |    | ļ        | 68<br>69   | =        |     | L        | <u> </u>     | _        | L            |  |              | 匚   | l |
|    |    |          | 70   | =        |     |          |              |          |              |  |              | L   | ľ |
|    |    |          | 71   | = ,      |     | L.       | l            |          |              |  |              |   | ŀ |
| :: |    |          | 72   |          |     |          |              |          |              |  |              |   |   |
| :: |    |          | 73   |          |     |          |              |          |              |  | Π            |   | ŀ |
|    | ii |          | 74   |          |     |          |              |          |              | -  |              |   |   |
| :: |    |          | 75   |          |     |          |              |          |              |  |              |   | i |
|    | ii |          | 76   |          |     |          |              |          |              |  |              |   |   |
|    | :: |          | 77   |          |     |          |              |          |              |  |              |   |   |
|    | :: |          | 78   |          |     |          |              |          |              |  |              |   |   |
|    | ii |          | 79   |          |     |          |              |          |              |  |              |   |   |
|    | :: |          | 80   | Н        | _   |          | $\vdash$     | -        |              |  |              |   |   |
| :: | :: |          | 81   |          |     | -        | $\vdash$     |          |              |  |              |   |   |
| :: | :: |          | 92   | $\vdash$ |     | _        | $\vdash$     |          |              | $\vdash$   | ├            | _   |   |
| :: | :: |          | 02   | Н        |     | <u> </u> | -            |          | -            |  | $\vdash$     | -   |   |
|    |    |          | 03   | $\vdash$ | _   |          | ⊢            | ┝        |              | ⊢  | -            | ļ   |   |
|    |    |          | 70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88 | Н        | _   | <u> </u> | _            | <u> </u> | -            | <u> </u>   | <b>—</b>     | -   |   |
| :: | :: |          | 85   |          |     | _        | <u> </u>     | <u> </u> |              | <u> </u>   | <u> </u>     | _   |   |
|    | :: |          | 86   | _        |     | _        | _            | $\vdash$ |              | _  |              | _   |   |
|    | :: |          | 87   | Щ        |     | <u> </u> | <u> </u>     | _        |              |  |              | _   |   |
|    |    |          | 88   |          |     | L        | <u> </u>     |          |              | _  | <u> </u>     |   |   |
|    | :: |          | 89   |          |     |          | _            |          |              | _  | <u> </u>     |   |   |
|    | :: |          | 90   |          |     |          |              |          |              |  |              |   |   |
|    |    |          | 91   |          |     |          |              | _        |              | $ldsymbol{ld}}}}}}$ | <u>L</u>     |   |   |
| :: |    |          | 92<br>93   | Ш        |     | Ш.       |              | L        | L_           | L_   | _            | $ldsymbol{ld}}}}}}$ |   |
| :: |    |          | 93   | Ш        | L., | L.       |              | Ш        |              | $oxed{oxed}$   | <u> </u>     |   |   |
|    |    |          | 94   | Ш        |     |          | Ш            |          |              |  | _            |   |   |
|    |    |          | 95<br>96   |          |     |          |              |          |              |  |              |   |   |
|    |    |          | 96   |          |     |          |              |          |              |  |              |   |   |
|    |    |          | 97   |          |     |          |              |          |              |  |              |   |   |
|    |    |          | 98<br>99   |          |     |          |              |          |              |  |              |   |   |
|    |    |          | 99   |          |     |          |              |          |              |  |              |   |   |
|    | :: |          | 100  |          |     |          |              |          |              |  |              |   |   |

|          | Cla       | aim  | Date          |          |  |              |  |  |          |              |          |
|----------|-----------|--|---------------|----------|--|--------------|--|--|----------|--------------|----------|
|          |           |  | $\overline{}$ |          |  |              | Г  |  |          |              | П        |
|          | 3         | Original   |               |          |  |              |  |  |          |              |          |
|          |           | 101  |               |          |  |              |  |  |          |              |          |
|          |           | 102  |               |          |  |              |  |  |          |              |          |
| L        |           | 103  |               | <u> </u> | <u> </u>   | _            | L  |  |          |              | L        |
| <u>_</u> |           | 104  |               |          | L  |              |  |  |          |              | L        |
| L        |           | 103<br>104<br>105                                    |               | _        | L  |              | <u> </u>   | _  | _        |              | _        |
| <u> </u> |           | 106<br>107   |               | <u> </u> | <u> </u>   | <u> </u>     |  |  |          | _            | <u> </u> |
| <u> </u> | _         | 107  | _             | L        | <u> </u>   |              | -  |  |          | ļ            | <u> </u> |
| <b> </b> | _         | 108  |               | ┞        | _  | ┞            | _  |  | _        | _            | ┡        |
| $\vdash$ | _         | 109  |               | ⊢        | $\vdash$   | <del> </del> |  | _  | -        |              |          |
| ⊢        | -         | 111  |               | -        |  | ⊢            | ⊢  | _  | $\vdash$ |              | $\vdash$ |
| $\vdash$ |           | 112  |               | -        | ┝  | $\vdash$     | -  | ┢  | ┝        | _            | ├        |
| Н        | -         | 113  | -             | $\vdash$ | ┢  | $\vdash$     | <del> </del>                                     |  | $\vdash$ |              | -        |
| Г        | 7         | 110<br>111<br>112<br>113<br>114<br>115<br>116        |               | $\vdash$ | H  | _            | <u> </u>   | <del>                                     </del> | H        | $\vdash$     | $\vdash$ |
| Г        | $\exists$ | 115  |               |          | Г  |              |  | <u> </u>   | Г        | Т            | Г        |
|          |           | 116  |               |          |  |              |  |  |          |              |          |
|          |           | 117  |               |          |  |              |  |  |          |              |          |
|          |           | 117<br>118<br>119                                    |               |          |  |              |  |  |          |              |          |
|          |           | 119  |               |          |  |              |  |  |          |              |          |
|          |           | 120  |               | L.       |  |              |  |  |          |              |          |
| <u></u>  |           | 121  |               | L.       |  |              |  |  |          |              |          |
|          |           | 122  |               |          |  |              |  | <u> </u>   |          | <u> </u>     | _        |
| 匚        |           | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 |               | <u> </u> | <u> </u>   | ļ            | _  | <u> </u>   |          | <u> </u>     |          |
| <u> </u> |           | 124  |               | _        | ļ  |              |  | <u> </u>   |          | <u> </u>     |          |
| <u> </u> |           | 125  |               |          | ļ  | _            | <u> </u>   | <u> </u>   | _        | <u> </u>     | _        |
| ⊢        | $\dashv$  | 120  |               | <u> </u> | ├  | _            | <del> </del>                                     | ⊢  |          | <del> </del> |          |
| $\vdash$ |           | 128  |               | -        | -  | _            | -  | _  | _        | $\vdash$     | _        |
| ├        | $\dashv$  | 128<br>129   |               | -        | ┝  |              | $\vdash$   | $\vdash$   | _        | ├─           | _        |
| <b> </b> | -         | 130  |               | -        | <del>                                     </del> | ┝            | ├  |  |          | $\vdash$     |          |
| 一        |           | 131  |               | $\vdash$ | <del>                                     </del> |              | <del>                                     </del> | <del>                                     </del> |          | $\vdash$     |          |
| Г        | $\neg$    | 132  |               |          |  |              |  |  |          |              |          |
|          |           | 133  |               |          |  |              |  |  |          |              |          |
| Г        |           | 131<br>132<br>133<br>134<br>135                      |               |          |  |              |  |  |          |              |          |
|          |           | 135  |               |          |  |              |  |  |          |              |          |
|          |           | 136<br>137<br>138                                    |               |          |  |              |  |  |          |              |          |
| <u></u>  |           | 137  |               |          | <u> </u>   |              | <u></u>  | <u> </u>   |          | Ì            |          |
| <u> </u> | _         | 138  |               | _        | <u> </u>   |              | ldash  | <u> </u>   |          | <u> </u>     | _        |
|          | 4         | 139<br>140   |               |          |  |              | <u> </u>   | <u> </u>   |          | <u> </u>     |          |
| <u> </u> | _         | 140  |               | <u> </u> | <b> </b>   | <u> </u>     | ļ  | ├  |          | <u> </u>     | _        |
| $\vdash$ | 4         | 141  |               | _        | $\vdash$   | _            | $\vdash$   | _  |          | $\vdash$     |          |
| $\vdash$ | ᅱ         | 142<br>143   |               |          | -  |              | $\vdash$   |  | _        | $\vdash$     | $\vdash$ |
| $\vdash$ | $\dashv$  | 144  |               | -        | ├─   | $\vdash$     | -  |  | -        | $\vdash$     | ⊢        |
| $\vdash$ | $\dashv$  | 145  |               | $\vdash$ | <del>                                     </del> | <del></del>  | -  | -  |          |              | $\vdash$ |
| $\vdash$ | $\dashv$  | 146  |               |          | $\vdash$   | <u> </u>     | $\vdash$   | $\vdash$   |          | $\vdash$     | $\vdash$ |
| 一        | _         | 147  |               |          |  | П            | -  |  |          | $\vdash$     |          |
| $\vdash$ | $\dashv$  | 148  |               |          |  |              | П  |  |          | H            |          |
| $\vdash$ | 寸         | 149  |               |          |  |              |  |  | П        |              |          |
|          | ╗         | 150  |               |          |  |              |  |  |          |              |          |
|          | _         |  |               |          |  |              |  |  |          |              |          |